

Title (en)
ELECTROMECHANICAL LOCK AND METHOD

Title (de)
ELEKTROMECHANISCHE SPERRE UND SCHLÜSSEL

Title (fr)
SERRURE ÉLECTROMÉCANIQUE ET PROCÉDÉ

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Application
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Abstract (en)
Electromechanical lock and method are disclosed. The lock includes: a movable permanent magnet (100) to move between a first position (120) and a second position (140); a stationary permanent semi-hard magnet (102); and an electrically powered magnetization coil (104) positioned adjacent to the stationary permanent semi-hard magnet (102) to switch a polarity of the stationary permanent semi-hard magnet (102) between a first magnetization configuration (S-N) and a second magnetization configuration (N-S). The first magnetization configuration (S-N) of the stationary permanent semi-hard magnet (102) attracts (122) the movable permanent magnet (100) to the first position (120). The second magnetization configuration (N-S) of the stationary permanent semi-hard magnet (102) repels (142) the movable permanent magnet to the second position (140). A magnetic axis (108) of the movable permanent magnet (100) is side by side with a magnetic axis (110) of the stationary permanent semi-hard magnet (102).

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